

REMARKS

Applicants respectfully request reconsideration of this application as amended. Claims 1-34 are pending in the application. Claims 1, 12, 14, 25, 31, 32-34 have been amended. Claims 3, 5, 7, 9-11, 13, 16, 18, 20, 22-24, 26, 28 and 30 have been cancelled. No claims have been added

Applicant has amended the specification to fix some typographical errors in the specification. Applicant submits that no new matter has been added. Applicant respectfully requests to the Examiner to enter the following changes.

The Examiner rejected claims 5, 7, 9-11, 18, 20, 22-24, 26, 28 and 30-32 under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. As claims 5, 7, 9-11, 18, 20, 22-24, 26, 28, 30 have been cancelled, Applicant respectfully submits the rejections to the claims have been obviated. As for claims 31 and 32, Applicant has amended the claims to remove the rejection.

The Examiner rejected claims 1, 14, 27, 29, 33 and 34 under 35 U.S.C. § 102(e) as being anticipated by Yi (U.S. Patent No. 6,778,187 B1). Applicant respectfully disagrees. The present invention as claimed sets forth that a forward transformation and a backward transformation (a reverse conversion) can be performed between a first color space (unit system) and a second color space (unit system). Claim 1 as amended is as follows:

A method for reversibly converting a data format in that a forward transformation and a backward transformation are reciprocally conducted for data between unit systems having different resolution levels defined by a brightness and a color difference,

wherein in the forward transformation and the backward transformation, a first unit system having a lower resolution level is used as a common unit system, and a reversible data conversion is conducted by an integer operation for data in the first unit system having the lower resolution level and data in a second unit system having a higher resolution level higher than the first unit system,

wherein the first unit system having the lower resolution level is for a first color space and the second unit system having the higher resolution level is for a second color space based on primary colors of lights and, the first color space being other than the second color space.
(emphasis added)

As set forth above, Claim 1 as amended includes a limitation that a reversible data conversion is performed using an integer operation for the backward transformation (the reverse conversion). Applicant respectfully submits that Yi does not disclose such a feature.

Yi discloses a technique for compressing and uncompressing three color component graphics and/or digital video data for storage to and retrieval from a reduced memory space. The video data may be compressed and stored along with transparency data. The stored and compressed video data may be uncompressed and a correction factor may be selectively applied to each of the three component pixel data. The resulting uncompressed pixel data matches or closely resembles the video data prior to compression and storage. Thus, Yi discloses a method to improve deterioration of image quality in a specific color space. However, Yi does not disclose that the reversible data conversion is performed via an integer operation. The Examiner contends that shifting data is equivalent to an integer operation. Applicant respectfully requests the Examiner to provide any support for such a contention. One skilled in the art would not equate a bit shift and an integer operation. Thus, Applicant respectfully submits that Yi does not disclose performing a reversible data conversion using an integer operation, and therefore, the present invention as claimed is not anticipated by Yi.

The other independent claims include a substantially similar limitation and therefore are not anticipated as well.

The Examiner also rejected claims 2, 4, 6, 8, 15, 17, 19 and 21 under 35 U.S.C. § 103(e) as being unpatentable over Yi (U.S. Patent No. 6,778,187 B1) in view of Meyers et al. (U.S. Patent

No. 6,489,888 B1). Applicant respectfully disagrees. As set forth above, Yi does not disclose performing a reversible data conversion using an integer operation. Applicant respectfully submits that Meyers does not overcome this deficiency. Meyers discloses to convert a specific color space to a different color space (i.e., from RGB to Lab or a like). Meyers does not teach, mention, nor disclose performing a reversible data conversion using an integer operation. By doing so, the present invention is able to improve a process speed of the reversible data conversion. Since the combination of Yi and Meyers does not include all the limitations of the present invention, the present invention as claimed is not obvious in view of Yi and Meyers.

Furthermore, Meyers discloses converting a higher resolution level of RGB into a lower resolution level of Lab, YCbCr, Srgb, or a like. On the other hand, the present invention as claimed is able to convert the lower resolution level of Lab, YCbCr, Srgb, or a like into the higher resolution level of RGB. In view of the above, the present invention as claimed in Claims 2, 4, 6, 8, 15, 17, 19 and 21 is not obvious in view of Yi and Meyers.

Accordingly, Applicants respectfully submit that the objections to the claims and the abstract have been overcome by the amendments and the remarks and withdrawal of these rejections is respectfully requested. Applicants submit that Claims 1-34 as amended are in condition for allowance and such action is earnestly solicited.


If any fee is required, please charge Deposit Account No. 02-2666.

Respectfully submitted,

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